NOV 10 1992

Please note change of address:
P.O. Box 1760
205 Main Street
Brattleboro, VT 05302
214 Main Street
Brattleboro, VT 05301
(802) 254-3677 (24 hrs.)
(802) 254-7630 (FAX)

November 2, 1992

Ms. Karen Amidon
Trust Department
Vermont National Bank
100 Main Street
Brattleboro, VT 05301

Re: Thomas Estate, Guilford, VT

Dear Ms. Amidon:

Please find enclosed our final summary report for the above named site. After you review and approve the report we will send it to Richard Spiese at the Vermont Agency of Natural Resources Hazardous Materials Management Division.

If you have any questions, please call me at 254-3677.

Sincerely,

Colin Blazej (DT)

Colin Blazej
Environmental Technician

Enclosure

cc: Richard Spiese
Steve Smith

CB/dat

CLOSURE REPORT
FOR
THOMAS ESTATE
GUILFORD, VERMONT

Prepared For:

Vermont National Bank
Brattleboro, Vermont

November 2, 1992

Table of Contents

Closure Report Thomas Estate, Guilford, Vermont

Introduction

The following work was initiated in response to a proposed sale of property. On November 27, 1990, TRI-S Environmental Consulting (TEC) and TRI-S Incorporated pulled a 550 gallon underground storage tank (UST) containing gasoline at the Thomas Farm in Guilford, VT (see site location map, Appendix A). A 1/4" diameter hole was found in the bottom of the UST and it was heavily rusted. The remaining gas contents were pumped out and the tank was properly disposed. Soil and water samples analyzed by Matrix Analytical Laboratories (MAL) showed contamination in the soil and water in the tank excavation pit. In letters to the Vermont Agency of Natural Resources (ANR) and Vermont National Bank (VNB)[acting as trustee of the Thomas Estate], dated December 18, 1990 and March 15, 1991, information from the initial tank pull and a preliminary site assessment were conveyed along with a plan to drill monitoring wells around the tank pull area. Four wells were installed by Kennedy Well Drilling and TEC on April 10, 1991. Two additional wells were hand augered in by TEC on April 11, 1991. Soil samples taken during drilling, and groundwater samples taken on April 16, 1991, were analyzed by MAL. Groundwater levels were recorded on April 16 and May 1, 1991. Based on the above information, TEC developed recommendations for further action contained in a summary report dated May 21, 1991. This led to an approval by VT ANR and VNB to excavate contaminated soil down to the groundwater table.

Initial Contaminated Soil Removal

Soil from the UST site was sampled on June 11, 1991, and analyzed for lead (Pb) by Method TCLP and found to be 0.013 mg/l. This is well below EPA lead limits of 5 mg/l. During the week of July 10 - July 13, 1991, TEC and Brown's Country Services (BCS) were on site to excavate the soils surrounding the former UST. Soil was removed with an excavator using State of Vermont petroleum contaminated soil protocol, and an organic vapor meter (OVM) to screen soils and segregate them according to contamination levels. Soils reading <20 parts per million (ppm) were set aside for backfill. Soils reading 20-100 ppm were loaded into a dump truck for transportation to the Windham Solid Waste Management District (WSWMD) landfill in Brattleboro, VT. Permission for excavation and disposal of these soils was received by TEC in a letter from Ian Robertson of VT ANR DEC Solid Waste Management Division to WSWMD on May 17 and a subsequent confirmation letter from Steve Johnson of WSWMD on May 28, 1991. Soils exceeding 100 ppm were stockpiled on plastic on site. Approximately 12-15 cubic yards were brought to the landfill for aeration before use as daily cover material. Another 12-15 cubic yards of contaminated soil exceeding 100 ppm was polyencapsulated awaiting a final decision on treatment options. Three sections of slotted screen PVC pipe were laid in the contaminated soil to allow soil venting of the stockpile as an option.

Soil Vapor Investigation

A soil vapor investigation to determine the extent of remaining soil contamination was performed by TEC on August 12, 1991. Information obtained indicated contamination extending under the garage wall. Options were then presented regarding the further remediation of the site. Discussions between TEC, VNB, and the current property owners Steve Smith and Elaine Stiles, led to an agreement to excavate the remaining soil contamination under the garage, polyencapsulate it, and vent the stockpile (see Appendix B for complete Soil Vapor Investigation Report).

Contaminated Soil Removal Under Garage

On November 19 and 20, 1991, TEC and BCS were on site to excavate the remaining contaminated soil. The contaminated soil extended beneath the garage which necessitated the removal of a concrete footing and wall and the temporary shoring of the building. The soil was screened with an OVM and segregated according to the readings. The majority of the soil exceeded 100 ppm and was added to the existing stockpile. A small quantity of soil was in the 20-100 ppm range and was also added to the stockpile. The entire stockpile was polyencapsulated after a 4" perforated plastic pipe was added near the top of the pile to allow an inlet for make up air during active venting. The remaining excavated area was backfilled with clean soil and regraded.

Soil Vent System Installation

During the month of December 1991, preparations were made to upgrade electrical service in the garage and install; piping, a 1 hp Fuji Ring Compressor, and 2 Filcorp Industries carbon canisters. The actual installation was performed by Tyler Electric and TEC between December 31, 1991 and January 2, 1992. The carbon canisters and the pipes leading to and between them were wrapped in heat tape and insulated to assure that any condensate would not freeze in the system. A return air hose was added later to keep the temperature in the soil pile more stable and enhance vapor extraction during the winter.

Soil Vent System Start Up and Operation

The soil vent system was started on January 3 and operated until April 16, 1992. During this time there were short periods when the system was not in operation. This was due to the soil pile and vapor extraction lines freezing, and a crushed pipe from being struck by the landowner's vehicle. The system was checked bi-weekly except when it wasnit was shut down. Its operation dates and volatile organic compound (VOC) concentrations as read with the OVM are shown on the next page.

TABLE I
PRODUCT REMOVED BY SOIL VENT SYSTEM

Date		OVM (ppm)	Time Elapsed (days)	Lb Product*
1/3/92	System start up and check	85	0	-
1/10/92	System check	2	8	13.2
1/24/92	System shut off due to ice in pipe	0	22	0.5
1/31/92	Restart and check system	25	29	-
2/10/92	System shut off due to water in pipe	-	40	5.2
2/24/92	Install return air hose, restart and check system	8	54	-
3/13/92	System shut off due to pipe break	-	73	5.8
4/2/92	Repair pipe, restart and check system	53	98	-
4/16/92	System check, shut off system, unplug heat tape, drain water trap	0	113	15.1
Totals			113	39.8
*Product Removed in Vapor Phase				

The following equations and assumptions are used for the above table:

- Air flow = 80 cfm constant during operation of system
- $(4.573\ mg/m^3$ per ppmv$)(10^{-6}\ kg/mg)(m^3/29.79\ ft^3)(lb/0.454\ kg) = 0.33\ lb/ft^3$
- (avg ppm)(days)$(0.33\ lb/ft^3)(ft^3/day)(10^{-6})$ = pounds of product removed
- $ft^3/day = 115{,}200$
- avg ppm = average influent reading in parts per million
- days = time interval between readings
- (avg ppm)(days)(0.038016) = lb product
- Response factor (RF) of OVM corrected for benzene = 0.55
- Conversion factor for pounds to gallons = lb/6.17
- 39.8*0.55RF = 21.89 or ~22 lb
- 22 lb/6.17 = 3.56 or ~3.6 gallons product removed

Please note

The preceding is only a rough estimation intended to serve as a gauge of system performance to quantify the volume of product removed.

Soil Stockpile Screening Results

Once extraction levels were negligible (as per an OVM), the system was turned off. On April 28, 1992, OVM readings were taken throughout the pile to assure that the pile had reached levels acceptable for landfilling. Soil was screened at depths from 2 to 4 feet. Readings ranged from 0 to 0.3 ppm.

Site Closure

Following discussions between TEC, VNB, and Steve Smith, VNB agreed to forgo landfilling the soil. Steve Smith dissembled the pile and used the clean soil as backfill on the property. BCS restored the concrete footings and wall in July 1992. TEC removed the two carbon canisters on August 4, 1992 and delivered them to Carbtrol Corporation in Bridgeport, CT on August 5, 1992 (see Approval Forms and Bill of Lading, Appendix C).

Water Sampling

A final round of sampling of all monitoring wells was conducted on July 8, 1992. Six well samples and three QA/QC samples were analyzed by EPA Method 8020. Each sample was non-detectable for all parameters. Initial samples taken on April 16, 1991, showed all wells at non-detectable levels for all parameters by EPA Method 8020 (see Laboratory Analysis, Appendix D). Groundwater levels were measured on this date and were lower than readings taken in the spring of 1991. The elevations are illustrated on the Groundwater Potentiometric Map for 7/8/92 (Appendix E) and all groundwater elevations are summarized in Table II (Thomas Estate Groundwater Potentiometric Chart). VNB-3 serves as an upgradient well from the UST site and VNB-4 and VNB-5 help define the north and south extent of contamination, respectively. VNB-1, VNB-5, and VNB-6 are all downgradient wells.

TABLE II
Thomas Estate Groundwater Potentiometric Chart

Date	VNB-1	VNB-2	VNB-3	VNB-4	VNB-5	VNB-6
Top of PVC	90.57	92.82	92.27	92.49	90.83	86.17
4/16/91	84.97	89.68	90.10	90.01	88.19	83.21
5/1/91	85.77	90.63	91.03	90.66	88.73	85.22
7/8/92	83.05	87.40		87.59	87.23	83.07
All elevations taken in feet from an arbitrary datum point Blank = Broken PVC, unable to collect data						

Recommendations

TEC recommends that the VT DEC Sites Management Section (SMS) consider this site closed for the following reasons:

•Fine sand, silt, and organics have helped limit the spread of contamination through the soil

•Soil has been excavated to the extent of contamination

•Soil meeting SMS criteria has been properly disposed of at landfill

•Soil exceeding 100 ppm has been vented to 0-0.3 ppm

•Carbon canisters have been properly disposed at licensed a facility

•All monitoring wells have been sampled on two occasions and continue to show non-detectable levels of BTEX by EPA Method 8020

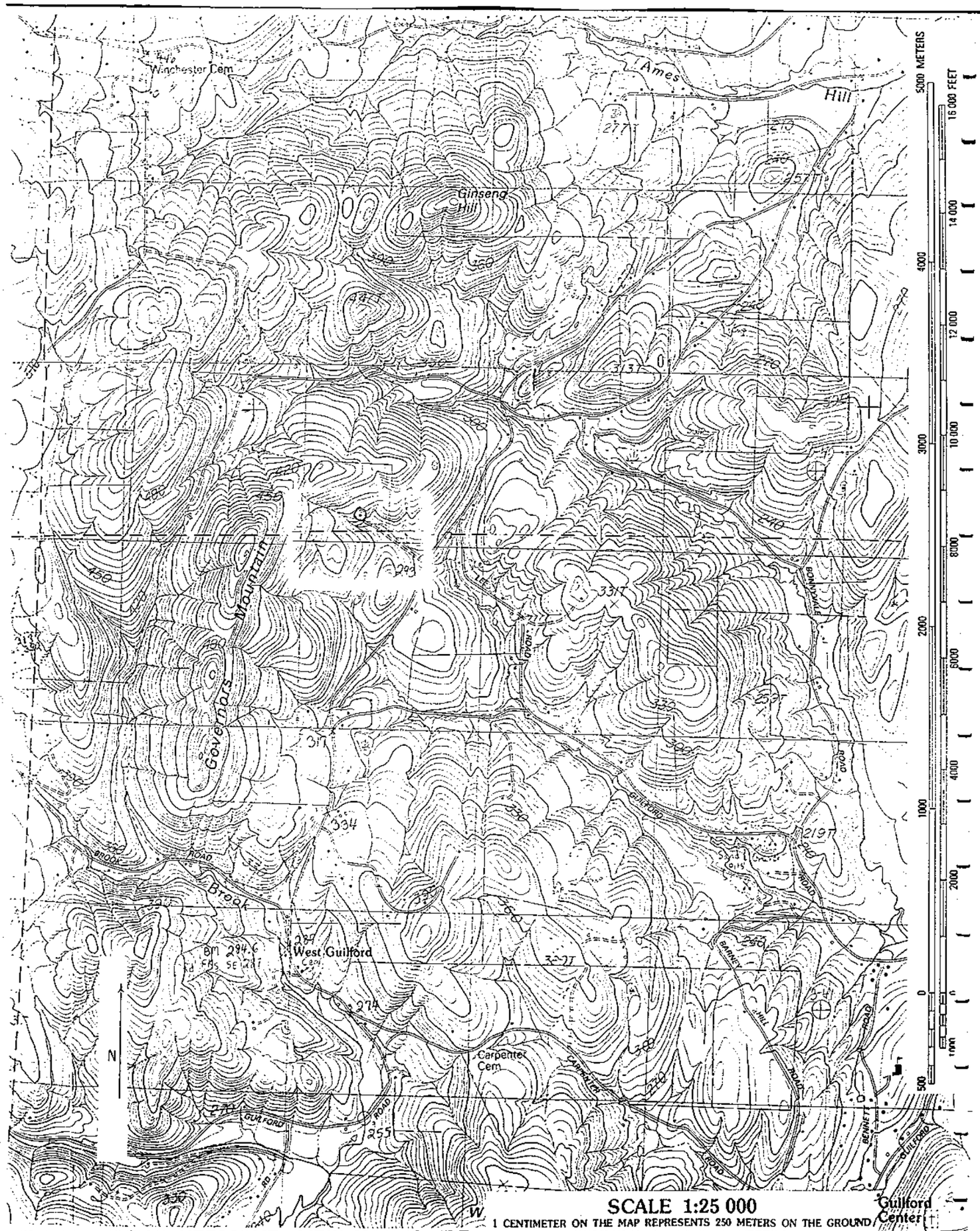
•The owner's well is hydraulically upgradient and was not required to be sampled

•The nearest neighbor's well is approximately 750 feet downgradient

•The nearest sensitive receptor, an unnamed stream, was sampled in two locations downgradient of the UST site and showed non-detectable levels of BTEX

Appendix A

Site Location Map



BRATTLEBORO, VERMONT – NEW HAMPSHIRE

PROVISIONAL EDITION 1984

42072-G5-TM-025

SCALE 1:25 000

1 CENTIMETER ON THE MAP REPRESENTS 250 METERS ON THE GROUND

CONTOUR INTERVAL 6 METERS

APPENDIX B

SOIL VAPOR INVESTIGATION

969

TRI-STATE ENVIRONMENTAL CONSULTING

214 Main Street
Brattleboro. VT 05301

(802)254-3677 (24 hrs.)
(802)254-7630 (FAX)

August 28, 1991

Ms. Karen Amidon
Vermont National Bank
100 Main Street
Brattleboro, VT 05301

Re: Soil Vapor Investigation, Thomas Residence, Guilford

Dear Ms. Amidon:

The field investigation phase of our study to determine the extent of contamination under the existing garage is complete. A summary of the work, recommendations, and cost estimates is included below.

Work Performed

On August 12, 1991, TEC personnel were on site at the Thomas residence (now Smith-Stiles). Eleven 3/4"-diameter steel soil vent points were hand-driven into the ground downgradient of the former tank site (see Figure 1 for locations). They were placed in a grid pattern at 4' intervals. Points 1 - 6 were driven down 2-1/2' and capped and allowed to equilibrate. Readings were then taken for organic vapors with a photoionization detection (PID) meter for one minute. Readings were the same as background at this depth. This is consistent with expected readings for this type of soil. A depth of 4' is usually necessary to assure influence from soil gas rather than ambient air from the surface. The first three points were driven to 5' and tested again. After obtaining ambient readings at 5', additional points were installed to assure that readings were consistent in areas of known contamination. Point 11 was driven to a 5' depth at a location 1' outside the garage wall in the same area the horizontal vent lines were installed during excavation. PID meter readings peaked at 436 parts per million (ppm)

(over)

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25 Pinney Street, Ellington, CT 06029 (203)875-2110 (24 hrs.)
Fax: (203)875-8587 (24 hrs.)

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and averaged about 275 ppm. All readings at a depth of 5' were taken for four minutes to assure an accurate reading of soil gas.

To confirm the readings of contamination in vent point 11, a ring compressor was used to apply vacuum to the 2" PVC vent line at a depth of 4' below the surface along the wall of the garage. The area of influence of the vacuum was tested simultaneously by uncapping vent points and reading the induced vacuum with a magnehelic gauge. Reaction time for wells influenced was less than five seconds. All readings (see enclosed Induced Vacuum Chart) were from a 5' depth except points 4, 5, and 6, which were left at 2 1/2' due to lack of contaminants in wells closer to the former tank site. Points that did not exhibit a vacuum during testing are noted with a "-".

The discharge air from the ring compressor was checked, and PID meter readings corresponded with those of point 11 with a peak of 435 ppm and an average of about 275 ppm as well. Readings before the vacuum was applied peaked at 61 ppm and averaged about 35 ppm. Passive readings from the vent line at a 2' depth peaked at 8.4 ppm and averaged 7.7 ppm. Passive readings taken from the vent lines in the contaminated soil stockpile showed levels highest on the side closest to the garage. Peak readings from the three lines were 261, 66, and 14 ppm, respectively.

After the first round of readings, several vent points were "developed" by applying a vacuum to each to determine if the induced vacuum would change when vacuum was applied to the existing vent line. Points 1 and 2 at 5' deep and 4 and 5 at 2 1/2' were developed. The magnehelic readings taken afterward were essentially the same with the exception of point 2, which showed no vacuum afterwards. PID readings taken from the discharge of the ring compressor showed 21 ppm from point 2, 2 ppm from point 4, and 23 ppm from point 5. This indicated that the vacuum was reaching the contaminated area. Upon removal of the point, it was established that the development had pulled water from the groundwater table into the soil pores around the point, thus blocking the vacuum when applied to the vent line.

Conclusions

The extent of contamination appears to be well delineated by the array of soil points installed for this vapor study. Screening with the PID meter established contamination directly under the garage wall, both from the installed vent lines and vent point 11. It also may extend down gradient nearly to the first set of points in the grid, numbers 1, 2 and 3. Testing of the induced vacuum with the magnehelic gauge established that there was communication between the vent line and the areas where the test points were installed. Development of the points proved to be unnecessary but assured that the soil transmissivity would allow any contamination under the garage to be reached by a vacuum applied to the existing vent lines.

Recommendations

The extent of contamination appears limited to a well confined area where vent lines were installed before backfilling adjacent to the garage. A remediation system could be installed which would address this area and the stockpiled soil as well, however, this work should be completed as soon as possible to take advantage of the expected low water table over the next six to seven months. Developing a soil vent system would require that the existing vent lines be manifolded together, balanced, and connected to a vacuum blower installed in a heated trailer. This would allow vacuum to be applied to areas with the highest vapor readings. Discharge air would be routed through carbon canisters to trap contamination before being released into the atmosphere. Weekly screening with the PID meter and the magnehelic gauge as well as temperature readings would be used to monitor system performance. Weekly system screening would continue until remediation progresses sufficiently to warrant less frequent checks. Once the stockpiled soil contains levels low enough to be acceptable at the landfill, the soil would be removed and that portion of the system disconnected.

Because the quantity of gas lost to the ground is not known, the status of the soils under the building would be determined by carefully monitoring the extraction rates. Data would be compiled and plotted to determine the decay constant at the site. This information would be used to determine when the benefits of running the system any longer have been exceeded.

A summary of all system check results and recommendations would be provided monthly.

I have enclosed a project proposal which lists the methods and costs for the above recommendations.

If you approve of this system as proposed, TEC can install it by early September, 1991. If you have any questions regarding the above information, please call me.

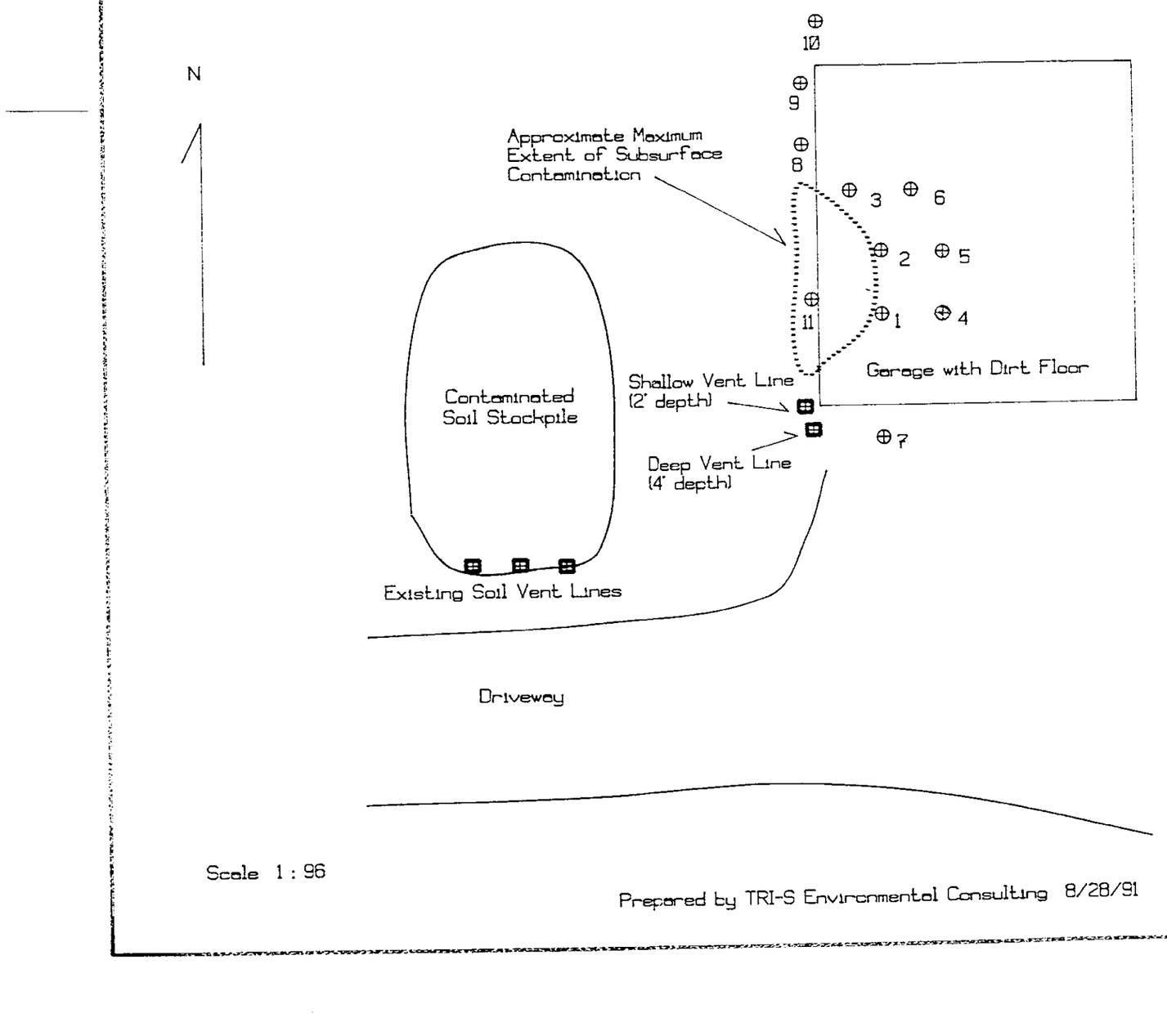
Sincerely,

Colin Blazej
Field Technician

:CB/mfc
\969\report.let

Enclosures

VERMONT NATIONAL BANK
GUILFORD SOIL VENT STUDY



Scale 1 : 96

Prepared by TRI-S Environmental Consulting 8/28/91

SOIL VAPOR INVESTIGATION
THOMAS RESIDENCE, GUILFORD

Induced Vacuum Chart

Point #	1	2	3	4	5	6	7	8	9	10	11
Induced Vacuum (inches of water)	0.2	0.105	--	0.035	0.04	0.025	0.075	0.125	--	--	3.2
Vacuum After Development		--		0.039	0.04						

Appendix C

Approval Forms and Bill of Lading

969 File

CARBTROL CORPORATION

DATE: 7/27/92
INITIALS: MSL

39 RIVERSIDE AVE., WESTPORT, CT. 06880
(203) 226-5642

SPENT ACTIVATED CARBON RETURN SHIPMENT AUTHORIZATION

CUSTOMER: Vermont National Bank
ADDRESS: 100 Main Street
Brattleboro, VT 05301
CONTACT: Karen Amidon
PHONE: (802) 257 - 7151

SITE: Thomas Farm Estate
Guilford, VT
EPA N°: -
TITLE: Trust Officer

REFERENCE:- CUSTOMER'S "SPENT ACTIVATED CARBON INDENTIFICATION SHEET", DATED- 7/20/'92, RECEIVED BY CARBTROL CORP. ON 7/23/'92
AUTHORIZATION BY:- Karen Amidon

RETURN SHIPMENT AUTHORIZATION:- RSA# 5094

(NOTE:-RSA# LABEL(S) SUPPLIED WITH THIS SHEET, MUST BE APPLIED TO EACH CANISTER BEFORE SHIPMENT. RSA# MUST BE SHOWN ON ALL SHIPPING PAPERS, eg. BILL OF LADING, etc.)

* * * * * * * * * * * * * * * * *

N° OF CANISTERS:- 2 SHIPPED NO LATER THAN:- 8/13/'92

ALL SPENT CARBON CANISTERS APPROVED FOR RETURN, MUST BE COMPLETELY DRAINED OF ALL FREE LIQUID, WITH OPENINGS PLUGGED BEFORE SHIPMENT. CANISTERS NOT PROPERLY LABELED & IDENTIFIED WILL BE REFUSED AND RETURNED TO THE SENDER.

* * * * * * * * * * * * * * * * *

CANISTERS MAY BE SHIPPED BY PREPAID COMMON CARRIER TO:-
CARBTROL CORP.
% BRIDGEPORT INNOVATION CENTER
955 CONNECTICUT AVE.-HOLLISTER AVE. GATE
BRIDGEPORT, CT. 06607

IMPORTANT:- PLEASE FAX COPY OF YOUR BILL-OF-LADING BEFORE ACTUAL SHIPMENT TO:- CARBTROL CORP., FAX # (203) 454-7887
ATTEN: MARILYN LOZINAK

FOR OFFICE USE ONLY
DATE RETURNED: _____
CONDITION: _____
BY: _____

FAXED 1/92 7/27/92

PAGE 1 OF 1

FOR OFFICE USE ONLY
SALESMAN:- JD ?
PRICE:- _____
CUST.P.O.# _____

CARBTROL® CORPORATION
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Westport, CT. 06880
1-800-242-1150 • (203) 226-5642
FAX: (203) 226-5322

LETTER OF TRANSMITTAL

DATE: 7/27/92	JOB NO:
ATTENTION: Karen Amidon	
RE: Spent Activated Carbon	
Return Shipment	
Authorization.	

TO: Vermont Natl. Bank
100 Main Street
Brattleboro, VT 05301

GENTLEMEN:

WE ARE SENDING YOU: X Attached ____ Under separate cover via ____ the following items:

____ Copy of letter ____ Prints ____ Report ____ Samples ____ Specifications

____ Other ____

COPIES	ISSUE DATE	NO.	DESCRIPTION
		1	Spent Activated Carbon Return Shipment Authorization
		2	Labels RSA # 5094
			re: Tri-S Environmental Cnstt.
			attn: Colin Blazej

THESE ARE TRANSMITTED as check below:

____ For approval ____ Final Issue ____ As requested

X For your use ____ For fabrication ____ Returned for corrections

____ For review and comment ____ ____

____ FOR BIDS DUE ____ 19__ ____ Prints returned after loan to us

REMARKS ____

COPY TO ____

SIGNED: Dana Santarella

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STRAIGHT BILL OF LADING
ORIGINAL - NOT NEGOTIABLE

Shipper's No. ____ Carrier's No. ____ Date ____

CARRIER: TRI-S Environmental Consulting SCAC

TO: Carbtrol Corp.
Consignee % Bridgeport Innovation Center
Street 955 Connecticut Ave. - Hollister Ave. Gate
Destination Bridgeport CT Zip 06607

FROM: Vermont National Bank
Shipper 100 main Street
Street Brattleboro VT
Origin Thomas Farm Guilford VT Zip 05301

Route: Best Way

Vehicle Number

No. Shipping Units	HM	Kind of Packages, Description of Articles (IF HAZARDOUS MATERIALS - PROPER SHIPPING NAME)	HAZARD CLASS	I.D. Number	WEIGHT (subject to correction)	RATE	LABELS REQUIRED (if exemption)
2		Spent Activated Carbon	①Health ①Flammability	RSA 5094	600 lbs		Hazard Ratings
		Canisters non RCRA not					
		DOT Regulated					
		DOT emergency response guidebook					
		number N/A					

Remit C.O.D. to:
Address:
City: State: Zip:

COD Amt: $

C.O.D. FEE:
Prepaid ☑
Collect ☐ $

FREIGHT CHARGES
☑ PREPAID ☐ COLLECT

NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.
(Signature of Consignor)

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Per

PLACARDS REQUIRED: no

PLACARDS SUPPLIED: ☐ YES ☒ NO — FURNISHED BY CARRIER

DRIVER SIGNATURE:

SHIPPER: Vermont National Bank
PER: Vermont Nat'l Bank by: Karen M. Anderson
DATE: 8/4/92

CARRIER: TRI-S Environmental Consulting
PER: Colleen Gill
DATE: 8/4/92

EMERGENCY RESPONSE TELEPHONE NUMBER: ( )

Manned 24 hours/day by a person with knowledge of the hazards of the material and emergency response information or who has access to a person with that knowledge.

9-BLS-A3
(Rev 9/88)

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Delivered 8-5-92
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STRAIGHT BILL OF LADING
ORIGINAL - NOT NEGOTIABLE

Shipper's No. ____

Carrier's No. ____ Date ____

CARRIER: TRI-S Environmental Consulting SCAC

TO: Consignee Carbtrol Corp. % Bridgeport Innovation Center
Street 955 Connecticut Ave. - Hollister Ave. Gate
Destination Bridge port CT Zip 06607

FROM: Shipper Vermont National Bank
Street 100 Main Street
Origin Thomas Farm Guilford VT Zip 05301

Vehicle Number

Route: Best Way

No. Shipping Units	HM	Kind of Packages, Description of Articles (or HAZARDOUS MATERIALS - PROPER SHIPPING NAME)	HAZARD CLASS	I.D. Number	WEIGHT (subject to correction)	RATE	LABELS REQUIRED (or exception)
2		Spent Activated Carbon	① Health ① Flammability	RSA 5094	600 lbs		Hazard Ratings
		Canisters non RCRA not					
		DOT Regulated					
		DOT emergency response guide book					
		number N/A					

Remit C.O.D. to:
Address:
City: State: Zip:

COD Amt: $

C.O.D. FEE:
Prepaid ☑
Collect ☐ $

FREIGHT CHARGES
☑ PREPAID ☐ COLLECT

NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ Per

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

PLACARDS REQUIRED: no

PLACARDS SUPPLIED ☐ YES ☒ NO — FURNISHED BY CARRIER

DRIVER SIGNATURE:

Per

SHIPPER: Vermont National Bank
PER: Vermont Nat'l Bank by: Karen M. Amidon
DATE: 8/4/92

CARRIER: TRI-S Environmental Consulting
PER: [signature]
DATE: 8/4/92

EMERGENCY RESPONSE TELEPHONE NUMBER: ( )

Manned 24 hours/day by a person with knowledge of the hazards of the material and emergency response information or who has access to a person with that knowledge.

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205 Main Street
Brattleboro, VT 05302
~~211 Main Street~~
~~Brattleboro, VT 05301~~
XXXXX

TRI-S INC
ENVIRONMENTAL CONSULTING

(802) 254-3677 (24 hrs.)
(802) 254-7630 (FAX)

FAX COVER SHEET

Date: 8-4-92

To: Carbtrol Corp.
Attn: Marilyn Lozinak

Fax #: (203)- 454-7887

From: Colin Blazej Tri-S for Vermont National Bank

This transmission consists of 2 pages (including cover sheet). If you do not receive all pages, please call (802) 254-3677. Thank you.

Comments: Please find a copy of the bill of lading for return shipment authorization #5094 I'll be down in the morning and i'll call with any question regarding directions to the Innovation Center. Thanks

Branch Office:
25 Pinney Street, Ellington, CT 06029 (203) 875-2110 (24 hrs.)
Fax: (203) 875-8587 (24 hrs.)

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FOR HELP IN CHEMICAL EMERGENCIES INVOLVING SPILL, LEAK, FIRE OR EXPOSURE CALL TOLL-FREE 1-800-424-9300 DAY OR NIGHT

STRAIGHT BILL OF LADING
ORIGINAL - NOT NEGOTIABLE

Shipper's No. ____

Carrier's No. ____ Date ____

CARRIER: TRI-S Environmental Consulting SCAC ____

TO: Carbtrol Corp.
Consignee % Bridgeport Innovation Center
Street 955 Connecticut Ave. - Hollister Ave. Gate
Destination Bridgeport CT Zip 06607

FROM: Vermont National Bank
Shipper 100 main Street
Street Brattleboro VT
Origin Thomas Farm Guilford VT Zip 05301

Vehicle Number ____

Route: Best Way

No. Shipping Units	HM	Kind of Packages, Description of Articles (If HAZARDOUS MATERIALS - PROPER SHIPPING NAME)	HAZARD CLASS	I.D. Number	WEIGHT (subject to correction)	RATE	LABELS REQUIRED (if exception)
2		Spent Activated Carbon	①Health ①Flammability	RSA 5094	600 lbs		Hazard Ratings
		Canisters non RCRA not					
		DOT Regulated					
		DOT emergency response guide book					
		number N/A					

Remit C.O.D. to:
Address:
City: State: Zip:

COD Amt: $

C.O.D. FEE:
Prepaid ☑
Collect ☐ $

FREIGHT CHARGES
☑ PREPAID ☐ COLLECT

NOTE — Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ ____ Per ____

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Per ____

PLACARDS REQUIRED: no

PLACARDS SUPPLIED: ☐ YES ☒ NO — FURNISHED BY CARRIER

DRIVER SIGNATURE: ____

SHIPPER: Vermont National Bank
PER: Vermont Nat'l Bank by: Kassell M. Amadon
DATE: 8/4/92

CARRIER: TRI-S Environmental Consulting
PER: Colin Gill
DATE: 8/4/92

EMERGENCY RESPONSE TELEPHONE NUMBER: ____

Manned 24 hours/day by a person with knowledge of the hazards of the material and emergency response information or who has access to a person with that knowledge.

9-BLS-A3
(Rev 9/88)

FOR HELP IN CHEMICAL EMERGENCIES INVOLVING SPILL, LEAK,
FIRE OR EXPOSURE CALL TOLL-FREE 1-800-424-9300 DAY OR NIGHT

CARBTROL® CORPORATION
39 Riverside Avenue
Westport, CT. 06880
1-800-242-1150 • (203) 226-5642
FAX: (203) 226-5322

LETTER OF TRANSMITTAL

DATE: 7/27/92	JOB NO:
ATTENTION: Karen Amidon	
RE: Spent Activated Carbon Return Shipment Authorization.	

TO: Vermont Nat'l. Bank
100 Main Street
Brattleboro, VT 05301

GENTLEMEN:

WE ARE SENDING YOU: X Attached ____ Under separate cover via _____ the following items:

____ Copy of letter ____ Prints ____ Report ____ Samples ____ Specifications

____ Other _____

COPIES	ISSUE DATE	NO.	DESCRIPTION
		1	Spent Activated Carbon Return Shipment Authorization
		2	Labels RSA # 5094
			re: Tri-S Environmental Cnstr.
			attn: Colin Blazej

THESE ARE TRANSMITTED as check below:

____ For approval ____ Final issue ____ As requested

X For your use ____ For fabrication ____ Returned for corrections

____ For review and comment ____ _____

____ FOR BIDS DUE _____ 19 ___ ____ Prints returned after loan to us

REMARKS _____

COPY TO _____

SIGNED: Dana Santarella

CARBTROL CORPORATION

DATE: 7/27/92
INITIALS: MSL

39 RIVERSIDE AVE., WESTPORT, CT. 06880
(203) 226-5642

SPENT ACTIVATED CARBON RETURN SHIPMENT AUTHORIZATION

CUSTOMER: Vermont National Bank
ADDRESS: 100 Main Street
Brattleboro, VT 05301
CONTACT: Karen Amidon
PHONE: (802) 257 - 7151

SITE: Thomas Farm Estate
Guilford, VT
EPA N°: -
TITLE: Trust Officer

REFERENCE:- CUSTOMER'S "SPENT ACTIVATED CARBON INDENTIFICATION SHEET", DATED- 7/20/'92 RECEIVED BY CARBTROL CORP. ON 7/23/'92
AUTHORIZATION BY:- Karen Amidon

RETURN SHIPMENT AUTHORIZATION:- RSA# 5094

(NOTE:-RSA# LABEL(S) SUPPLIED WITH THIS SHEET, MUST BE APPLIED TO EACH CANISTER BEFORE SHIPMENT. RSA# MUST BE SHOWN ON ALL SHIPPING PAPERS, eg. BILL OF LADING, etc.)

* * * * * * * * * * * * * * * * *

N° OF CANISTERS:- 2 SHIPPED NO LATER THAN:- 8/13/'92

ALL SPENT CARBON CANISTERS APPROVED FOR RETURN, MUST BE COMPLETELY DRAINED OF ALL FREE LIQUID, WITH OPENINGS PLUGGED BEFORE SHIPMENT. CANISTERS NOT PROPERLY LABELED & IDENTIFIED WILL BE REFUSED AND RETURNED TO THE SENDER.

* * * * * * * * * * * * * * * * *

CANISTERS MAY BE SHIPPED BY PREPAID COMMON CARRIER TO:-
CARBTROL CORP.
% BRIDGEPORT INNOVATION CENTER
955 CONNECTICUT AVE.-HOLLISTER AVE. GATE
BRIDGEPORT, CT. 06607

IMPORTANT:- PLEASE FAX COPY OF YOUR BILL-OF-LADING BEFORE ACTUAL SHIPMENT TO:- CARBTROL CORP., FAX # (203) 454-7887
ATTEN: MARILYN LOZINAK

FOR OFFICE USE ONLY
DATE RETURNED: _____
CONDITION: _____
BY: _____

1/92
FAXED 7/27/92

FOR OFFICE USE ONLY
SALESMAN:- DD
PRICE:- ?
CUST.P.O.# _____

APPENDIX D

LABORATORY ANALYSIS

ANALYTICAL DATA SUMMARY

Report Date:	07/15/92
Account:	TRI-S Environmental Consulting
Address:	P.O. Box 1760 Brattleboro, VT 05302 802-254-3677
Project Manager:	
Project Name:	VNB Guilford (969) (7-9-92)
Project No.:	969

Lab Sample No.'s:

21914113-001	21914113-002	21914113-003	21914113-004	21914113-005
21914113-006	21914113-007	21914113-008	21914113-009	21914113-010

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Reviewed by

Stephen DiMattei
Quality Assurance Officer

Lab Certifications

EPA ID: No. MA059
Connecticut: No. PH 0515
Florida: QA Plan No. 900437G
Maine: Reciprocity
Massachusetts: No. 313
New Hampshire: No. 24190-A,B
New York: ELAP No. 11116
Rhode Island: Reciprocity

Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748
1 800 3-MATRIX

FINAL REPORT

Client Information

Account: TRI-S Environmental Consulting
Address: P.O. Box 1760
Brattleboro, VT 05302

Project Name: VNB Guilford (969) (7-9-92)
Project Number: 969
Project Manager:
Sampler Name: TRI-S Environmental Consult

Sample Information

Lab ID: 21914113-001
Client Id: VNB-1-7892-969
Matrix: Water

RECEIVED JUL 18 1992

Date Sampled: 07/08/92 12:10
Date Received: 07/09/92 : 0
Date Reported: 07/15/92

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Benzene	ND	ug/l	1	8020	db	07/14/92
Chlorobenzene	ND	ug/l	1	8020	db	07/14/92
1,2-Dichlorobenzene	ND	ug/l	1	8020	db	07/14/92
1,3-Dichlorobenzene	ND	ug/l	1	8020	db	07/14/92
1,4-Dichlorobenzene	ND	ug/l	1	8020	db	07/14/92
Ethylbenzene	ND	ug/l	1	8020	db	07/14/92
MTBE	ND	ug/l	5	8020	db	07/14/92
Toluene	ND	ug/l	1	8020	db	07/14/92
Xylene	ND	ug/l	1	8020	db	07/14/92
SURROGATE STUDIES - VOLATILES						
Bromofluorobenzene (602/8020)	85	Percent			db	07/14/92

Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748
1 800 3-MATRIX

FINAL REPORT

Client Information

Account:	TRI-S Environmental Consulting	Project Name:	VNB Guilford (969) (7-9-92)
Address:	P.O. Box 1760	Project Number:	969
	Brattleboro, VT 05302	Project Manager:	
		Sampler Name:	TRI-S Environmental Consult

Sample Information

Lab ID:	21914113-002	Date Sampled:	07/08/92 13:11
Client Id:	VNB-2-7892-969	Date Received:	07/09/92 : 0
Matrix:	Water	Date Reported:	07/15/92

RECEIVED JUL 18 1992

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Benzene	ND	ug/l	1	8020	rc	07/14/92
Chlorobenzene	ND	ug/l	1	8020	rc	07/14/92
1,2-Dichlorobenzene	ND	ug/l	1	8020	rc	07/14/92
1,3-Dichlorobenzene	ND	ug/l	1	8020	rc	07/14/92
1,4-Dichlorobenzene	ND	ug/l	1	8020	rc	07/14/92
Ethylbenzene	ND	ug/l	1	8020	rc	07/14/92
MTBE	ND	ug/l	5	8020	rc	07/14/92
Toluene	ND	ug/l	1	8020	rc	07/14/92
Xylene	ND	ug/l	1	8020	rc	07/14/92
SURROGATE STUDIES - VOLATILES						
Bromofluorobenzene (602/8020)	105	Percent			rc	07/14/92

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F I N A L R E P O R T

Client Information

Account:	TRI-S Environmental Consulting	Project Name:	VNB Guilford (969) (7-9-92)
Address:	P.O. Box 1760	Project Number:	969
	Brattleboro, VT 05302	Project Manager:	
		Sampler Name:	TRI-S Environmental Consult

Sample Information

Lab ID:	21914113-003	Date Sampled:	07/08/92 12:26
Client Id:	VNB-3-7892-969	Date Received:	07/09/92 : 0
Matrix:	Water	Date Reported:	07/15/92

RECEIVED JUL 1 8 1992

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Benzene	ND	ug/l	1	8020	rc	07/14/92
Chlorobenzene	ND	ug/l	1	8020	rc	07/14/92
1,2-Dichlorobenzene	ND	ug/l	1	8020	rc	07/14/92
1,3-Dichlorobenzene	ND	ug/l	1	8020	rc	07/14/92
1,4-Dichlorobenzene	ND	ug/l	1	8020	rc	07/14/92
Ethylbenzene	ND	ug/l	1	8020	rc	07/14/92
MTBE	ND	ug/l	5	8020	rc	07/14/92
Toluene	ND	ug/l	1	8020	rc	07/14/92
Xylene	ND	ug/l	1	8020	rc	07/14/92
SURROGATE STUDIES - VOLATILES						
Bromofluorobenzene (602/8020)	91	Percent			rc	07/14/92

Matrix Analytical, Inc.
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Hopkinton, MA 01748
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FINAL REPORT

Client Information

Account:	TRI-S Environmental Consulting	Project Name:	VNB Guilford (969) (7-9-92)
Address:	P.O. Box 1760	Project Number:	969
	Brattleboro, VT 05302	Project Manager:	
		Sampler Name:	TRI-S Environmental Consult

Sample Information

Lab ID:	21914113-004	Date Sampled:	07/08/92 12:15
Client Id:	VNB-4-7892-969	Date Received:	07/09/92 : 0
Matrix:	Water	Date Reported:	07/15/92

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Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Benzene	ND	ug/l	1	8020	rc	07/14/92
Chlorobenzene	ND	ug/l	1	8020	rc	07/14/92
1,2-Dichlorobenzene	ND	ug/l	1	8020	rc	07/14/92
1,3-Dichlorobenzene	ND	ug/l	1	8020	rc	07/14/92
1,4-Dichlorobenzene	ND	ug/l	1	8020	rc	07/14/92
Ethylbenzene	ND	ug/l	1	8020	rc	07/14/92
MTBE	ND	ug/l	5	8020	rc	07/14/92
Toluene	ND	ug/l	1	8020	rc	07/14/92
Xylene	ND	ug/l	1	8020	rc	07/14/92
SURROGATE STUDIES - VOLATILES						
Bromofluorobenzene (602/8020)	101	Percent			rc	07/14/92

Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748
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FINAL REPORT

Client Information

Account:	TRI-S Environmental Consulting	Project Name:	VNB Guilford (969) (7-9-92)
Address:	P.O. Box 1760	Project Number:	969
	Brattleboro, VT 05302	Project Manager:	
		Sampler Name:	TRI-S Environmental Consult

Sample Information

Lab ID:	21914113-005	Date Sampled:	07/08/92 12:26
Client Id:	VNB-5-7892-969	Date Received:	07/09/92 : 0
Matrix:	Water	Date Reported:	07/15/92

RECEIVED JUL 18 1992

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Benzene	ND	ug/l	1	8020	rc	07/14/92
Chlorobenzene	ND	ug/l	1	8020	rc	07/14/92
1,2-Dichlorobenzene	ND	ug/l	1	8020	rc	07/14/92
1,3-Dichlorobenzene	ND	ug/l	1	8020	rc	07/14/92
1,4-Dichlorobenzene	ND	ug/l	1	8020	rc	07/14/92
Ethylbenzene	ND	ug/l	1	8020	rc	07/14/92
MTBE	ND	ug/l	5	8020	rc	07/14/92
Toluene	ND	ug/l	1	8020	rc	07/14/92
Xylene	ND	ug/l	1	8020	rc	07/14/92
SURROGATE STUDIES - VOLATILES						
Bromofluorobenzene (602/8020)	91	Percent			rc	07/14/92

Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748
1 800 3-MATRIX

FINAL REPORT

Client Information

Account:	TRI-S Environmental Consulting	Project Name:	VNB Guilford (969) (7-9-92)
Address:	P.O. Box 1760	Project Number:	969
	Brattleboro, VT 05302	Project Manager:	
		Sampler Name:	TRI-S Environmental Consult

Sample Information

Lab ID:	21914113-006	Date Sampled:	07/08/92 12:21
Client Id:	VNB-6-7892-969	Date Received:	07/09/92 : 0
Matrix:	Water	Date Reported:	07/15/92

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Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Benzene	ND	ug/l	1	8020	rc	07/14/92
Chlorobenzene	ND	ug/l	1	8020	rc	07/14/92
1,2-Dichlorobenzene	ND	ug/l	1	8020	rc	07/14/92
1,3-Dichlorobenzene	ND	ug/l	1	8020	rc	07/14/92
1,4-Dichlorobenzene	ND	ug/l	1	8020	rc	07/14/92
Ethylbenzene	ND	ug/l	1	8020	rc	07/14/92
MTBE	ND	ug/l	5	8020	rc	07/14/92
Toluene	ND	ug/l	1	8020	rc	07/14/92
Xylene	ND	ug/l	1	8020	rc	07/14/92
SURROGATE STUDIES - VOLATILES						
Bromofluorobenzene (602/8020)	98	Percent			rc	07/14/92

Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748
1 800 3-MATRIX

FINAL REPORT

Client Information

Account:	TRI-S Environmental Consulting	Project Name:	VNB Guilford (969) (7-9-92)
Address:	P.O. Box 1760	Project Number:	969
	Brattleboro, VT 05302	Project Manager:	
		Sampler Name:	TRI-S Environmental Consult

Sample Information

Lab ID:	21914113-007	Date Sampled:	07/08/92 12:27
Client Id:	VNB-7-7892-969	Date Received:	07/09/92 : 0
Matrix:	Water	Date Reported:	07/15/92

RECEIVED JUL 1 8 1992

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Benzene	ND	ug/l	1	8020	rc	07/14/92
Chlorobenzene	ND	ug/l	1	8020	rc	07/14/92
1,2-Dichlorobenzene	ND	ug/l	1	8020	rc	07/14/92
1,3-Dichlorobenzene	ND	ug/l	1	8020	rc	07/14/92
1,4-Dichlorobenzene	ND	ug/l	1	8020	rc	07/14/92
Ethylbenzene	ND	ug/l	1	8020	rc	07/14/92
MTBE	ND	ug/l	5	8020	rc	07/14/92
Toluene	ND	ug/l	1	8020	rc	07/14/92
Xylene	ND	ug/l	1	8020	rc	07/14/92
SURROGATE STUDIES - VOLATILES						
Bromofluorobenzene (602/8020)	87	Percent			rc	07/14/92

Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748
1 800 3-MATRIX

F I N A L R E P O R T

Client Information

Account:	TRI-S Environmental Consulting	Project Name:	VNB Guilford (969) (7-9-92)
Address:	P.O. Box 1760	Project Number:	969
	Brattleboro, VT 05302	Project Manager:	
		Sampler Name:	TRI-S Environmental Consult

Sample Information

Lab ID:	21914113-008	Date Sampled:	07/08/92 13:17
Client Id:	VNB-8-7892-969	Date Received:	07/09/92 : 0
Matrix:	Water	Date Reported:	07/15/92

RECEIVED JUL 18 1992

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Benzene	ND	ug/l	1	8020	rc	07/14/92
Chlorobenzene	ND	ug/l	1	8020	rc	07/14/92
1,2-Dichlorobenzene	ND	ug/l	1	8020	rc	07/14/92
1,3-Dichlorobenzene	ND	ug/l	1	8020	rc	07/14/92
1,4-Dichlorobenzene	ND	ug/l	1	8020	rc	07/14/92
Ethylbenzene	ND	ug/l	1	8020	rc	07/14/92
MTBE	ND	ug/l	5	8020	rc	07/14/92
Toluene	ND	ug/l	1	8020	rc	07/14/92
Xylene	ND	ug/l	1	8020	rc	07/14/92
SURROGATE STUDIES - VOLATILES						
Bromofluorobenzene (602/8020)	89	Percent			rc	07/14/92

Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748
1 800 3-MATRIX

FINAL REPORT

Client Information

Account:	TRI-S Environmental Consulting	Project Name:	VNB Guilford (969) (7-9-92)
Address:	P.O. Box 1760	Project Number:	969
	Brattleboro, VT 05302	Project Manager:	
		Sampler Name:	TRI-S Environmental Consult

Sample Information

Lab ID:	21914113-009	Date Sampled:	07/08/92 11:32
Client Id:	VNB-9-7892-969	Date Received:	07/09/92 : 0
Matrix:	Water	Date Reported:	07/15/92

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Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
VOLATILE ORGANICS						
Benzene	ND	ug/l	1	8020	rc	07/14/92
Chlorobenzene	ND	ug/l	1	8020	rc	07/14/92
1,2-Dichlorobenzene	ND	ug/l	1	8020	rc	07/14/92
1,3-Dichlorobenzene	ND	ug/l	1	8020	rc	07/14/92
1,4-Dichlorobenzene	ND	ug/l	1	8020	rc	07/14/92
Ethylbenzene	ND	ug/l	1	8020	rc	07/14/92
MTBE	ND	ug/l	5	8020	rc	07/14/92
Toluene	ND	ug/l	1	8020	rc	07/14/92
Xylene	ND	ug/l	1	8020	rc	07/14/92
SURROGATE STUDIES - VOLATILES						
Bromofluorobenzene (602/8020)	84	Percent			rc	07/14/92

Matrix Analytical, Inc.
106 South Street
Hopkinton, MA 01748
1 800 3-MATRIX

FINAL REPORT

Client Information

Account:	TRI-S Environmental Consulting	Project Name:	VNB Guilford (969) (7-9-92)
Address:	P.O. Box 1760	Project Number:	969
	Brattleboro, VT 05302	Project Manager:	
		Sampler Name:	

Sample Information

Lab ID:	21914113-010	RECEIVED JUL 1 8 1992	Date Sampled:	07/08/92 :	
Client Id:	QC-Report		Date Received:	07/09/92 : 0	
Matrix:	Water		Date Reported:	07/15/92	
Comment:	Water				

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
METHOD BLANK - VOLATILES						
Method Blank	ND	ug/l		8020/602		

METHOD SUMMARIES

Volatile organic analysis is performed using H/P 5995 or 5970 GC/MS, Tekmar purge and trap, and ALS autosampler. Chromatography incorporates packed and megabore columns. Data reduction is performed on RTE 1000 and ChemStation systems. Tuning is based on BFB standards. Procedural guidelines follow EPA 624 or SW846 for all analyses. Aromatic volatiles listed in VOA 8020 are analyzed using GC/MS systems.

METHOD REFERENCES

1. Test Methods For Evaluating Solid Waste: Physical Chemical Methods. EPA SW 846. November 1986.
2. Methods For Chemical Analysis of Water and Wastes. EPA 600/4-79-200. Revised March 1983.
3. Standard Methods For Examination of Water and Wastewater. APHA-AWWA-WACP., 16th Edition. 1985.

CHAIN-OF-CUSTODY RECORD

CLIENT: TRI-S Environmental Consulting

ADDRESS: P.O. Box 1760

205 Main Street, Brattleboro, Vt. 05302

CLIENT CONTACT/PHONE: (802) 254-3677

PROJECT NAME: VNB Guilford NO.: 969

LAB CONTACT: Susan Donnelly EXT. NO.: 305

ANALYSES REQUESTED

IMPORTANT - INDICATE THE NUMBER OF BOTTLES PER SAMPLE IN THE SPACES BELOW

LAB ID (LAB USE ONLY)	SAMPLE ID / CLIENT DESCRIPTION	TYPE*	COLLECTION DATE	COLLECTION TIME	8020 (GC only)										COMMENTS	TOTALS
	VNB-1-7892-969	GW	7/8/92	12:10	2											
	VNB-2-7892-969	↓	↓	1:11	2											
	VNB-3 " "	↓	↓	12:26	2											
	VNB-4 " "	↓	↓	12:15	2											
	VNB-5 " "	↓	↓	12:26	2											
	VNB-6 " "	↓	↓	12:21	2											
Dup VNB 3	VNB-7 " "	↓	↓	12:27	2											
FB	VNB-8 " "	↓	↓	1:17	2											
TB	VNB-9 " "	↓	↓	11:32	2											
				TOTALS:	18											18

*TYPE: W = water; GW = groundwater; DW = drinking water; SW = surface water; S = soil; SED = sediment; SL = sludge; DS = drum sample; O = oil; WI = wipe; X = other (please describe)

SPECIAL PRICE QUOTE FOR THIS PROJECT? NO YES NUMBER:

SPECIAL INSTRUCTIONS / NOTES:

Q.O. 1128

RECEIVED JUL 18 1992

MATRIX ANALYTICAL USE ONLY

Samples:
1) were shipped / hand-delivered / ambient / chilled
2) were received preserved / unpreserved
3) were received intact / broken / leaking
4) were received within / past holding times
5) agreed with COC form / discrepancies were present
6) were sealed / not sealed with COC tape; tape was broken / intact
7) were in cooler sealed / not sealed with COC tape; tape was broken / intact

NOTES:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	COMMENTS
Kirsten Jappen	Joyce M Scott	7/9/92	a.m.	
D.M.S.	[illegible signature]	7/9/92	/m	
[illegible signature]	Ramona Cleary	7-9-92		

SAMPLER'S INITIALS: KHJ

MATRIX ANALYTICAL, INC.
100 South Street
Hopkinton, MA 01748
1 (800) 3-MATRIX

21914113-001

PAGE 1 OF 1

Matrix Analytical, Inc.
HOPKINTON INDUSTRIAL PARK
106 SOUTH ST.
HOPKINTON, MA 01748
508-435-6824
Mass. Cert. No. 313 * Conn. Cert. No. PH-0515 * EPA ID No. MA059
N.Y. ELAP No. 11116

MAI ID #	ACCOUNT #	CODE	PAGE #
11076919	001407	D	1

FILE 969

SAMPLE IDENTIFICATION INFORMATION

969/VNB (W500 VNB1)
41691-969-MA
GUILFORD

REFERRED BY:

TEC/TRI-S ENVIRON.CONSULTING
ATTN:DAVID GAGNON
214 MAIN ST.
BRATTLEBORO, VT 05301

COLLECTED	RECEIVED	REPORTED
04/16/91 12:13	04/17/91	04/24/91

REPORT: FINAL REPORT

COMMENT:

TESTS	RESULTS	UNITS	DETECTION LIMIT	METHOD
*** GENERAL INFORMATION				
COLLECTOR: TEC/TRI-S ENV.				
*** VOLATILE AROMATICS (GC)				
ANALYSIS DATE	4/18/91			
DETECTION LIMIT AS INDICATED.				
BENZENE	ND	UG/L	1.	8020
TOLUENE	ND	UG/L	1.	8020
CHLOROBENZENE	ND	UG/L	1.	8020
ETHYL BENZENE	ND	UG/L	1.	8020
1,3-DICHLOROBENZENE	ND	UG/L	1.	8020
1,2-DICHLOROBENZENE	ND	UG/L	1.	8020
1,4-DICHLOROBENZENE	ND	UG/L	1.	8020
XYLENE	ND	UG/L	1.	8020
MTBE	ND	UG/L	5.	8020
*** VOA SURROGATE STUDIES				
BROMOFLUOROBENZENE	106.	%		

METHOD SUMMARY:
VOLATILE ORGANIC ANALYSIS IS PERFORMED USING H/P 5890 G.C. WITH ELECTROLYTIC CONDUCTIVITY AND PHOTOIONIZATION DETECTORS, TEKMAR PURGE AND TRAP SAMPLE CONCENTRATOR AND MEGABORE COLUMN. PROCEDURAL GUIDELINES FOLLOW EPA 8010/8020 AND 601/602 METHODS.

*** THIS IS A FINAL REPORT. ***

Matrix Analytical, Inc.
HOPKINTON INDUSTRIAL PARK
106 SOUTH ST.
HOPKINTON, MA 01748
508-435-6824
Mass. Cert. No. 313 * Conn. Cert. No. PH-0515 * EPA ID No. MA059
N.Y. ELAP No. 11116

MAI ID #	ACCOUNT #	CODE	PAGE #
11076920	001407	D	1

SAMPLE IDENTIFICATION INFORMATION

969/VNB (W501 VNB2)
41691-969-MA
GUILFORD

REFERRED BY:

TEC/TRI-S ENVIRON.CONSULTING
ATTN:DAVID GAGNON
214 MAIN ST.
BRATTLEBORO, VT 05301

COLLECTED	RECEIVED	REPORTED
04/16/91 12:27	04/17/91	04/24/91

REPORT: FINAL REPORT

COMMENT:

TESTS	RESULTS	UNITS	DETECTION LIMIT	METHOD
*** GENERAL INFORMATION				
COLLECTOR: TEC/TRI-S ENV				
*** VOLATILE AROMATICS (GC)				
ANALYSIS DATE	4/18/91			
DETECTION LIMIT AS INDICATED.				
BENZENE	ND	UG/L	1.	8020
TOLUENE	ND	UG/L	1.	8020
CHLOROBENZENE	ND	UG/L	1.	8020
ETHYL BENZENE	ND	UG/L	1.	8020
1,3-DICHLOROBENZENE	ND	UG/L	1.	8020
1,2-DICHLOROBENZENE	ND	UG/L	1.	8020
1,4-DICHLOROBENZENE	ND	UG/L	1.	8020
XYLENE	ND	UG/L	1.	8020
MTBE	ND	UG/L	5.	8020
*** VOA SURROGATE STUDIES				
BROMOFLUOROBENZENE	105.	%		

METHOD SUMMARY:
VOLATILE ORGANIC ANALYSIS IS PERFORMED USING H/P 5890 G.C. WITH ELECTROLYTIC CONDUCTIVITY AND PHOTOIONIZATION DETECTORS, TEKMAR PURGE AND TRAP SAMPLE CONCENTRATOR AND MEGABORE COLUMN. PROCEDURAL GUIDELINES FOLLOW EPA 8010/8020 AND 601/602 METHODS.

*** THIS IS A FINAL REPORT. ***

Matrix Analytical, Inc.
HOPKINTON INDUSTRIAL PARK
106 SOUTH ST.
HOPKINTON, MA 01748
508-435-6824
Mass. Cert. No. 313 * Conn. Cert. No. PH-0515 * EPA ID No. MA059
N.Y. ELAP No. 11116

MAI ID #	ACCOUNT #	CODE	PAGE #
11076921	001407	D	1

SAMPLE IDENTIFICATION INFORMATION

969/VNB (W502 VNB3)
41691-969-MA
GUILFORD

REFERRED BY:

TEC/TRI-S ENVIRON.CONSULTING
ATTN:DAVID GAGNON
214 MAIN ST.
BRATTLEBORO, VT 05301

COLLECTED	RECEIVED	REPORTED
04/16/91 12:29	04/17/91	04/24/91

REPORT: FINAL REPORT

COMMENT:

TESTS	RESULTS	UNITS	DETECTION LIMIT	METHOD
*** GENERAL INFORMATION				
COLLECTOR: TEC/TRI-S ENV				
*** VOLATILE AROMATICS (GC)				
ANALYSIS DATE	4/18/91			
DETECTION LIMIT AS INDICATED.				
BENZENE	ND	UG/L	1.	8020
TOLUENE	ND	UG/L	1.	8020
CHLOROBENZENE	ND	UG/L	1.	8020
ETHYL BENZENE	ND	UG/L	1.	8020
1,3-DICHLOROBENZENE	ND	UG/L	1.	8020
1,2-DICHLOROBENZENE	ND	UG/L	1.	8020
1,4-DICHLOROBENZENE	ND	UG/L	1.	8020
XYLENE	ND	UG/L	1.	8020
MTBE	ND	UG/L	5.	8020
*** VOA SURROGATE STUDIES				
BROMOFLUOROBENZENE	112.	%		

METHOD SUMMARY:
VOLATILE ORGANIC ANALYSIS IS PERFORMED USING H/P 5890 G.C. WITH ELECTROLYTIC CONDUCTIVITY AND PHOTOIONIZATION DETECTORS, TEKMAR PURGE AND TRAP SAMPLE CONCENTRATOR AND MEGABORE COLUMN. PROCEDURAL GUIDELINES FOLLOW EPA 8010/8020 AND 601/602 METHODS.

*** THIS IS A FINAL REPORT. ***

Matrix Analytical, Inc.
HOPKINTON INDUSTRIAL PARK
106 SOUTH ST.
HOPKINTON, MA 01748
508-435-6824
Mass. Cert. No. 313 * Conn. Cert. No. PH-0515 * EPA ID No. MA059
N.Y. ELAP No. 11116

MAI ID #	ACCOUNT #	CODE	PAGE #
11076922	001407	D	1

SAMPLE IDENTIFICATION INFORMATION

969/VNB (W503 VNB4)
41691-969-MA
GUILFORD

REFERRED BY:

TEC/TRI-S ENVIRON.CONSULTING
ATTN:DAVID GAGNON
214 MAIN ST.
BRATTLEBORO, VT 05301

COLLECTED	RECEIVED	REPORTED
04/16/91 12:32	04/17/91	04/24/91

REPORT: FINAL REPORT

COMMENT:

TESTS	RESULTS	UNITS	DETECTION LIMIT	METHOD
*** GENERAL INFORMATION				
COLLECTOR: TEC/TRI-S ENV				
*** VOLATILE AROMATICS (GC)				
ANALYSIS DATE	4/18/91			
DETECTION LIMIT AS INDICATED.				
BENZENE	ND	UG/L	1.	8020
TOLUENE	ND	UG/L	1.	8020
CHLOROBENZENE	ND	UG/L	1.	8020
ETHYL BENZENE	ND	UG/L	1.	8020
1,3-DICHLOROBENZENE	ND	UG/L	1.	8020
1,2-DICHLOROBENZENE	ND	UG/L	1.	8020
1,4-DICHLOROBENZENE	ND	UG/L	1.	8020
XYLENE	ND	UG/L	1.	8020
MTBE	ND	UG/L	5.	8020
*** VOA SURROGATE STUDIES				
BROMOFLUOROBENZENE	108.	%		

METHOD SUMMARY:
VOLATILE ORGANIC ANALYSIS IS PERFORMED USING H/P 5890 G.C. WITH ELECTROLYTIC CONDUCTIVITY AND PHOTOIONIZATION DETECTORS, TEKMAR PURGE AND TRAP SAMPLE CONCENTRATOR AND MEGABORE COLUMN. PROCEDURAL GUIDELINES FOLLOW EPA 8010/8020 AND 601/602 METHODS.

*** THIS IS A FINAL REPORT. ***

Matrix Analytical, Inc.
HOPKINTON INDUSTRIAL PARK
106 SOUTH ST.
HOPKINTON, MA 01748
508-435-6824
Mass. Cert. No. 313 * Conn. Cert. No. PH-0515 * EPA ID No. MA059
N.Y. ELAP No. 11116

MAI ID #	ACCOUNT #	CODE	PAGE #
11076923	001407	D	1

SAMPLE IDENTIFICATION INFORMATION

969/VNB (W504 VNB5)
41691-969-MA
GUILFORD

REFERRED BY:

TEC/TRI-S ENVIRON.CONSULTING
ATTN:DAVID GAGNON
214 MAIN ST.
BRATTLEBORO, VT 05301

COLLECTED	RECEIVED	REPORTED
04/16/91 12:22	04/17/91	04/24/91

REPORT: FINAL REPORT

COMMENT:

TESTS	RESULTS	UNITS	DETECTION LIMIT	METHOD
*** GENERAL INFORMATION				
COLLECTOR: TEC/TRI-S ENV				
*** VOLATILE AROMATICS (GC)				
ANALYSIS DATE	4/18/91			
DETECTION LIMIT AS INDICATED.				
BENZENE	ND	UG/L	1.	8020
TOLUENE	ND	UG/L	1.	8020
CHLOROBENZENE	ND	UG/L	1.	8020
ETHYL BENZENE	ND	UG/L	1.	8020
1,3-DICHLOROBENZENE	ND	UG/L	1.	8020
1,2-DICHLOROBENZENE	ND	UG/L	1.	8020
1,4-DICHLOROBENZENE	ND	UG/L	1.	8020
XYLENE	ND	UG/L	1.	8020
MTBE	ND	UG/L	5.	8020
*** VOA SURROGATE STUDIES				
BROMOFLUOROBENZENE	110.	%		

METHOD SUMMARY:
VOLATILE ORGANIC ANALYSIS IS PERFORMED USING H/P 5890 G.C. WITH ELECTROLYTIC CONDUCTIVITY AND PHOTOIONIZATION DETECTORS, TEKMAR PURGE AND TRAP SAMPLE CONCENTRATOR AND MEGABORE COLUMN. PROCEDURAL GUIDELINES FOLLOW EPA 8010/8020 AND 601/602 METHODS.

*** THIS IS A FINAL REPORT. ***

Matrix Analytical, Inc.
HOPKINTON INDUSTRIAL PARK
106 SOUTH ST.
HOPKINTON, MA 01748
508-435-6824
Mass. Cert. No. 313 * Conn. Cert. No. PH-0515 * EPA ID No. MA059
N.Y. ELAP No. 11116

MAI ID #	ACCOUNT #	CODE	PAGE #
11076924	001407	D	1

SAMPLE IDENTIFICATION INFORMATION

969/VNB (W505 VNB6)
41691-969-MA
GUILFORD

REFERRED BY:

TEC/TRI-S ENVIRON.CONSULTING
ATTN:DAVID GAGNON
214 MAIN ST.
BRATTLEBORO, VT 05301

COLLECTED	RECEIVED	REPORTED
04/16/91 12:18	04/17/91	04/24/91

REPORT: FINAL REPORT

COMMENT:

TESTS	RESULTS	UNITS	DETECTION LIMIT	METHOD
*** GENERAL INFORMATION				
COLLECTOR: TEC/TRI-S ENV				
*** VOLATILE AROMATICS (GC)				
ANALYSIS DATE	4/18/91			
DETECTION LIMIT AS INDICATED.				
BENZENE	ND	UG/L	1.	8020
TOLUENE	ND	UG/L	1.	8020
CHLOROBENZENE	ND	UG/L	1.	8020
ETHYL BENZENE	ND	UG/L	1.	8020
1,3-DICHLOROBENZENE	ND	UG/L	1.	8020
1,2-DICHLOROBENZENE	ND	UG/L	1.	8020
1,4-DICHLOROBENZENE	ND	UG/L	1.	8020
XYLENE	ND	UG/L	1.	8020
MTBE	ND	UG/L	5.	8020
*** VOA SURROGATE STUDIES				
BROMOFLUOROBENZENE	106.	%		

METHOD SUMMARY:
VOLATILE ORGANIC ANALYSIS IS PERFORMED USING H/P 5890 G.C. WITH ELECTROLYTIC CONDUCTIVITY AND PHOTOIONIZATION DETECTORS, TEKMAR PURGE AND TRAP SAMPLE CONCENTRATOR AND MEGABORE COLUMN. PROCEDURAL GUIDELINES FOLLOW EPA 8010/8020 AND 601/602 METHODS.

*** THIS IS A FINAL REPORT. ***

Matrix Analytical, Inc.
HOPKINTON INDUSTRIAL PARK
106 SOUTH ST.
HOPKINTON, MA 01748
508-435-6824
Mass. Cert. No. 313 * Conn. Cert. No. PH-0515 * EPA ID No. MA059
N.Y. ELAP No. 11116

MAI ID #	ACCOUNT #	CODE	PAGE #
11076925	001407	D	1

SAMPLE IDENTIFICATION INFORMATION

969/VNB (W506)
41691-969-MA
GUILFORD SITE

REFERRED BY:

TEC/TRI-S ENVIRON.CONSULTING
ATTN:DAVID GAGNON
214 MAIN ST.
BRATTLEBORO, VT 05301

COLLECTED	RECEIVED	REPORTED
04/16/91 09:25	04/17/91	04/24/91

REPORT: FINAL REPORT

COMMENT:

TESTS	RESULTS	UNITS	DETECTION LIMIT	METHOD
*** GENERAL INFORMATION				
COLLECTOR: TEC/TRI-S ENV				
*** VOLATILE AROMATICS (GC)				
ANALYSIS DATE	4/19/91			
DETECTION LIMIT AS INDICATED.				
BENZENE	ND	UG/L	1.	8020
TOLUENE	ND	UG/L	1.	8020
CHLOROBENZENE	ND	UG/L	1.	8020
ETHYL BENZENE	ND	UG/L	1.	8020
1,3-DICHLOROBENZENE	ND	UG/L	1.	8020
1,2-DICHLOROBENZENE	ND	UG/L	1.	8020
1,4-DICHLOROBENZENE	ND	UG/L	1.	8020
XYLENE	ND	UG/L	1.	8020
MTBE	ND	UG/L	5.	8020
*** VOA SURROGATE STUDIES				
BROMOFLUOROBENZENE	97.	%		

METHOD SUMMARY:
VOLATILE ORGANIC ANALYSIS IS PERFORMED USING H/P 5890 G.C. WITH ELECTROLYTIC CONDUCTIVITY AND PHOTOIONIZATION DETECTORS, TEKMAR PURGE AND TRAP SAMPLE CONCENTRATOR AND MEGABORE COLUMN. PROCEDURAL GUIDELINES FOLLOW EPA 8010/8020 AND 601/602 METHODS.

*** THIS IS A FINAL REPORT. ***

Matrix Analytical, Inc.
HOPKINTON INDUSTRIAL PARK
106 SOUTH ST.
HOPKINTON, MA 01748
508-435-6824
Mass. Cert. No. 313 * Conn. Cert. No. PH-0515 * EPA ID No. MA059
N.Y. ELAP No. 11116

MAI ID #	ACCOUNT #	CODE	PAGE #
11076926	001407	D	1

SAMPLE IDENTIFICATION INFORMATION

969/VNB (W507)
41691-969-MA
GUILFORD SITE

REFERRED BY:

TEC/TRI-S ENVIRON.CONSULTING
ATTN:DAVID GAGNON
214 MAIN ST.
BRATTLEBORO, VT 05301

COLLECTED	RECEIVED	REPORTED
04/16/91 12:11	04/17/91	04/24/91

EPORT: FINAL REPORT

COMMENT:

TESTS	RESULTS	UNITS	DETECTION LIMIT	METHOD
*** GENERAL INFORMATION				
COLLECTOR: TEC/TRI-S ENV				
*** VOLATILE AROMATICS (GC)				
ANALYSIS DATE	4/19/91			
DETECTION LIMIT AS INDICATED.				
BENZENE	ND	UG/L	1.	8020
TOLUENE	ND	UG/L	1.	8020
CHLOROBENZENE	ND	UG/L	1.	8020
ETHYL BENZENE	ND	UG/L	1.	8020
1,3-DICHLOROBENZENE	ND	UG/L	1.	8020
1,2-DICHLOROBENZENE	ND	UG/L	1.	8020
1,4-DICHLOROBENZENE	ND	UG/L	1.	8020
XYLENE	ND	UG/L	1.	8020
MTBE	ND	UG/L	5.	8020
*** VOA SURROGATE STUDIES				
BROMOFLUOROBENZENE	96.	%		

METHOD SUMMARY:
VOLATILE ORGANIC ANALYSIS IS PERFORMED USING H/P 5890 G.C. WITH ELECTROLYTIC CONDUCTIVITY AND PHOTOIONIZATION DETECTORS, TEKMAR PURGE AND TRAP SAMPLE CONCENTRATOR AND MEGABORE COLUMN. PROCEDURAL GUIDELINES FOLLOW EPA 8010/8020 AND 601/602 METHODS.

*** THIS IS A FINAL REPORT. ***

Matrix Analytical, Inc.
HOPKINTON INDUSTRIAL PARK
106 SOUTH ST.
HOPKINTON, MA 01748
508-435-6824
Mass. Cert. No. 313 * Conn. Cert. No. PH-0515 * EPA ID No. MA059
N.Y. ELAP No. 11116

MAI ID #	ACCOUNT #	CODE	PAGE #
11076927	001407	D	1

SAMPLE IDENTIFICATION INFORMATION

969/VNB (W508 VNB4)
41691-969-MA
GUILFORD

REFERRED BY:

TEC/TRI-S ENVIRON.CONSULTING
ATTN:DAVID GAGNON
214 MAIN ST.
BRATTLEBORO, VT 05301

COLLECTED	RECEIVED	REPORTED
04/16/91 12:33	04/17/91	04/24/91

REPORT: FINAL REPORT

COMMENT:

TESTS	RESULTS	UNITS	DETECTION LIMIT	METHOD
*** GENERAL INFORMATION				
COLLECTOR: TEC/TRI-S ENV				
*** VOLATILE AROMATICS (GC)				
ANALYSIS DATE	4/19/91			
DETECTION LIMIT AS INDICATED.				
BENZENE	ND	UG/L	1.	8020
TOLUENE	ND	UG/L	1.	8020
CHLOROBENZENE	ND	UG/L	1.	8020
ETHYL BENZENE	ND	UG/L	1.	8020
1,3-DICHLOROBENZENE	ND	UG/L	1.	8020
1,2-DICHLOROBENZENE	ND	UG/L	1.	8020
1,4-DICHLOROBENZENE	ND	UG/L	1.	8020
XYLENE	ND	UG/L	1.	8020
MTBE	ND	UG/L	5.	8020
*** VOA SURROGATE STUDIES				
BROMOFLUOROBENZENE	94.	%		

METHOD SUMMARY:
VOLATILE ORGANIC ANALYSIS IS PERFORMED USING H/P 5890 G.C. WITH ELECTROLYTIC CONDUCTIVITY AND PHOTOIONIZATION DETECTORS, TEKMAR PURGE AND TRAP SAMPLE CONCENTRATOR AND MEGABORE COLUMN. PROCEDURAL GUIDELINES FOLLOW EPA 8010/8020 AND 601/602 METHODS.

*** THIS IS A FINAL REPORT. ***

Matrix Analytical, Inc.
HOPKINTON INDUSTRIAL PARK
106 SOUTH ST.
HOPKINTON, MA 01748
508-435-6824
Mass. Cert. No. 313 * Conn. Cert. No. PH-0515 * EPA ID No. MA059
N.Y. ELAP No. 11116

MAI ID #	ACCOUNT #	CODE	PAGE #
11076928	001407	D	1

SAMPLE IDENTIFICATION INFORMATION

969/VNB (#7)
4191-969-MA
GUILFORD

REFERRED BY:

TEC/TRI-S ENVIRON.CONSULTING
ATTN:DAVID GAGNON
214 MAIN ST.
BRATTLEBORO, VT 05301

COLLECTED	RECEIVED	REPORTED
04/15/91 00:00	04/17/91	04/24/91

REPORT: FINAL REPORT

COMMENT:

TESTS	RESULTS	UNITS	DETECTION LIMIT	METHOD
*** GENERAL INFORMATION				
COLLECTOR: TEC/TRI-S ENV.				
*** VOLATILE AROMATICS (GC)				
8020 ANALYSIS DATE:	4/18/91			
BENZENE	ND	UG/KG	1.	8020
TOLUENE	ND	UG/KG	5.	8020
CHLOROBENZENE	ND	UG/KG	5.	8020
ETHYL BENZENE	ND	UG/KG	5.	8020
1,3-DICHLOROBENZENE	ND	UG/KG	5.	8020
1,2-DICHLOROBENZENE	ND	UG/KG	5.	8020
1,4-DICHLOROBENZENE	ND	UG/KG	5.	8020
XYLENE	ND	UG/KG	5.	8020
MTBE	ND	UG/KG	5.	8020
DETECTION LIMIT AS INDICATED.				
*** VOA SURROGATE STUDIES				
BROMOFLUOROBENZENE	78.	%		

METHOD SUMMARY:
VOLATILE ORGANIC ANALYSIS IS PERFORMED USING H/P 5890 G.C. WITH ELECTROLYTIC CONDUCTIVITY AND PHOTOIONIZATION DETECTORS, TEKMAR PURGE AND TRAP SAMPLE CONCENTRATOR AND MEGABORE COLUMN. PROCEDURAL GUIDELINES FOLLOW EPA 8010/8020 AND 601/602 METHODS.

*** THIS IS A FINAL REPORT. ***

Matrix Analytical, Inc.
HOPKINTON INDUSTRIAL PARK
106 SOUTH ST.
HOPKINTON, MA 01748
508-435-6824
Mass. Cert. No. 313 * Conn. Cert. No. PH-0515 * EPA ID No. MA059
N.Y. ELAP No. 11116

MAI ID #	ACCOUNT #	CODE	PAGE #
11076929	001407	D	1

SAMPLE IDENTIFICATION INFORMATION

969/VNB (#6)
41691-969-MA
GUILFORD

REFERRED BY:

TEC/TRI-S ENVIRON.CONSULTING
ATTN:DAVID GAGNON
214 MAIN ST.
BRATTLEBORO, VT 05301

COLLECTED	RECEIVED	REPORTED
04/15/91 00:00	04/17/91	04/24/91

REPORT: FINAL REPORT

COMMENT:

TESTS	RESULTS	UNITS	DETECTION LIMIT	METHOD
*** GENERAL INFORMATION				
COLLECTOR: TEC/TRI-S ENV.				
*** VOLATILE AROMATICS (GC)				
8020 ANALYSIS DATE:	4/18/91			
BENZENE	ND	UG/KG	1.	8020
TOLUENE	ND	UG/KG	5.	8020
CHLOROBENZENE	ND	UG/KG	5.	8020
ETHYL BENZENE	ND	UG/KG	5.	8020
1,3-DICHLOROBENZENE	ND	UG/KG	5.	8020
1,2-DICHLOROBENZENE	ND	UG/KG	5.	8020
1,4-DICHLOROBENZENE	ND	UG/KG	5.	8020
XYLENE	ND	UG/KG	5.	8020
MTBE	ND	UG/KG	5.	8020
DETECTION LIMIT AS INDICATED.				
*** VOA SURROGATE STUDIES				
BROMOFLUOROBENZENE	80.	%		

METHOD SUMMARY:
VOLATILE ORGANIC ANALYSIS IS PERFORMED USING H/P 5890 G.C. WITH ELECTROLYTIC CONDUCTIVITY AND PHOTOIONIZATION DETECTORS, TEKMAR PURGE AND TRAP SAMPLE CONCENTRATOR AND MEGABORE COLUMN. PROCEDURAL GUIDELINES FOLLOW EPA 8010/8020 AND 601/602 METHODS.

*** THIS IS A FINAL REPORT. ***

Matrix Analytical, Inc.

CHAIN OF CUSTODY RECORD

CLIENT NAME: TEC ACCOUNT#

ADDRESS: 214 Main St.
Brattleboro, VT 05301

PROJECT # : 969/VNB/Guilford LOCATION : Guilford, VT

SAMPLERS SIGNATURE : [signature]

SAMPLE #	SAMPLE LOCATION	DATE/ TIME	# CONTAINERS	ANALYSIS REQUIRED WATER
W500-41691-969-MA	VNB-1	4/16/91 / 12:43PM	2	602+MTBE GC only
W501-41691-969-MA	VNB-2	/ 12:27	2	↓
W502-41691-969-MA	VNB-3	/ 12:29	2	↓
W503-41691-969-MA	VNB-4	/ 12:32	2	↓
W504-41691-969-MA	VNB-5	/ 12:22	2	↓
W505-41691-969-MA	VNB-6	/ 1218	2	↓
W506-41691-969-MA	Guilford site	/ 9:25AM	2	↓
W501-41691-969-MA	Guilford site	/ 12:11PM	2	↓
W508-41691-969-MA	VNB-4	↓ / 12:33	2	↓
#6	VNB-6	4/15/91 /	2	SOIL 602+MTBE GC only
#7	VNB-7	4/15/91 /	2	602+MTBE GC only

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME
KM Maloney	12:20 pm, 4/17/91	Donna M. Scott	4/17/91 12:30
RELINQUISHED BY:		RECEIVED BY:	DATE/TIME

METHOD OF SHIPMENT:

Matrix Analytical, Inc.
HOPKINTON INDUSTRIAL PARK
106 SOUTH ST.
HOPKINTON, MA 01748
508-435-6824
Mass. Cert. No. 313 * Conn. Cert. No. PH-0515 * EPA ID No. MA059
N.Y. ELAP No. 11116

MAI ID #	ACCOUNT #	CODE	PAGE #
11630506	001407	D	1

SAMPLE IDENTIFICATION INFORMATION

969 (W589611919 69MA)
VT.NATIONAL BANK
GUILFORD UST

file

REFERRED BY:

TEC/TRI-S ENVIRON.CONSULTING
ATTN:DAVID GAGNON
214 MAIN ST.
BRATTLEBORO, VT 05301

COLLECTED	RECEIVED	REPORTED
06/11/91 14:15	06/12/91	06/19/91

REPORT: FINAL REPORT

COMMENT: TCLP

TESTS	RESULTS	UNITS	DETECTION LIMIT	METHOD
*** GENERAL INFORMATION				
COLLECTOR: TEC/TRI-S ENV.				
*** SAMPLE PREPARATION				
TCLP EXTRACTION	6/12/91		0.	1311
DIGESTION-METALS	6/13/91		0.	3020
*** TRACE METALS WATER				
LEAD	0.013	MG/L	0.001	7421

*** THIS IS A FINAL REPORT. ***

RECEIVED ON 6-24-91

Lead EPA limits 5 MG/L
0.013mg/L well below limit.

Matrix Analytical, Inc.
HOPKINTON INDUSTRIAL PARK
106 SOUTH ST.
HOPKINTON, MA 01748
508-435-6824
Mass. Cert. No. 313 * Conn. Cert. No. PH-0515 * EPA ID No. MA059
N.Y. ELAP No. 11116

MAI ID #	ACCOUNT #	CODE	PAGE #
11630507	001407	D	1

SAMPLE IDENTIFICATION INFORMATION

969 (QC-REPORT)

REFERRED BY:

TEC/TRI-S ENVIRON.CONSULTING
ATTN:DAVID GAGNON
214 MAIN ST.
BRATTLEBORO, VT 05301

COLLECTED	RECEIVED	REPORTED
/ / 00:00	06/12/91	06/19/91

REPORT: FINAL REPORT

COMMENT: TCLP

TESTS	RESULTS	UNITS	DETECTION LIMIT	METHOD
*** QC RECOVERY STUDIES				
LEAD ID:	11630506	RECOVERY	111.	%
*** QC DUPLICATE STUDIES				
LEAD ID:	11630506	VARIANCE	0.	%

*** METHOD SUMMARIES

METAL ANALYSIS IS PERFORMED ON DIGESTED EXTRACTS USING ATOMIC ABSORPTION OR ICP SPECTROSCOPY. AA SAMPLES ARE ATOMIZED USING FASTAC AUTO DEPOSITION SYSTEMS AND AUTOMAICALLY DEPOSITED INTO GRAPHITE CELLS OR DIRECTLY INTO FLAME. ICP SAMPLES ARE AUTOMATICALLY SAMPLED, NEBULIZED AND TRANSPORTED INTO THE PLASMA TORCH. FINAL RESULTS ARE PRODUCED BY AUTO DATA/REDUCTION AND GRAPHICS PRINTER.

TCLP EXTRACTIONS ARE PERFORMED BY SW846 PROTOCOL. SAMPLES ARE PROCESSED FOR 18 HRS USING AUTO ROTATORS FROM ASSOCIATED DESIGN & MANUFACTURING CO. INORGANIC AND NON-VOLATILE SPECIES ARE PROCESSED IN GLASS CONTAINERS, WHILE VOLATILES ARE PROCESSED IN ZHE (ZERO HEADSPACE EXTRACTORS). RESULTS ARE QUANTIFIED AND ADJUSTED BASED ON MATRIX SPIKE RECOVERIES. PROCEDURE ADHERES TO JUNE 29, 1990 FEDERAL REGISTER.

*** REFERENCES

1. TEST METHODS FOR EVALUATING SOLID WASTE:PHYSICAL/ CHEMICAL METHODS. EPA SW-846. NOVEMBER 1986.
2. METHODS FOR CHEMICAL ANALYSIS OF WATER AND WASTES. EPA 600/4-79-200. REVISED MARCH 1983.
3. STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER. APHA-AWWA-WACF., 16TH EDITION. 1985.

*** THIS IS A FINAL REPORT. ***

RECEIVED ON 6-24-91

MATRIX

Matrix Analytical, Inc.

CHAIN OF CUSTODY RECORD

CLIENT NAME: TEC ACCOUNT# 4600 (PO#)

ADDRESS: 214 Main St
Brattleboro VT 05301

PROJECT # : 969 VT Nat'l Bank Guilford LOCATION : Guilford

SAMPLERS SIGNATURE : Madeline Gotthardt

SAMPLE #	SAMPLE LOCATION	DATE/ TIME	# CONTAINERS	ANALYSIS REQUIRED
W589-61191-961-MA	guilford UST	6/11/91 2:15	1	TCLP LEAD
*APPROVED FOR 5-DAY RUSH by Michelle				

RELINQUISHED BY: Paul D. J. Miller — RECEIVED BY: Libby Chapman — DATE/TIME 11:15 6/12/91

RELINQUISHED BY: — RECEIVED BY: — DATE/TIME

METHOD OF SHIPMENT:

RECEIVED ON 6-24-91

106 South Street • Hopkinton, MA • (508) 435-6824
Offices: Springfield, MA • Danbury, CT • Orlando, FL

APPENDIX E

GROUNDWATER POTENTIOMETRIC MAP

FOR JULY 8, 1992

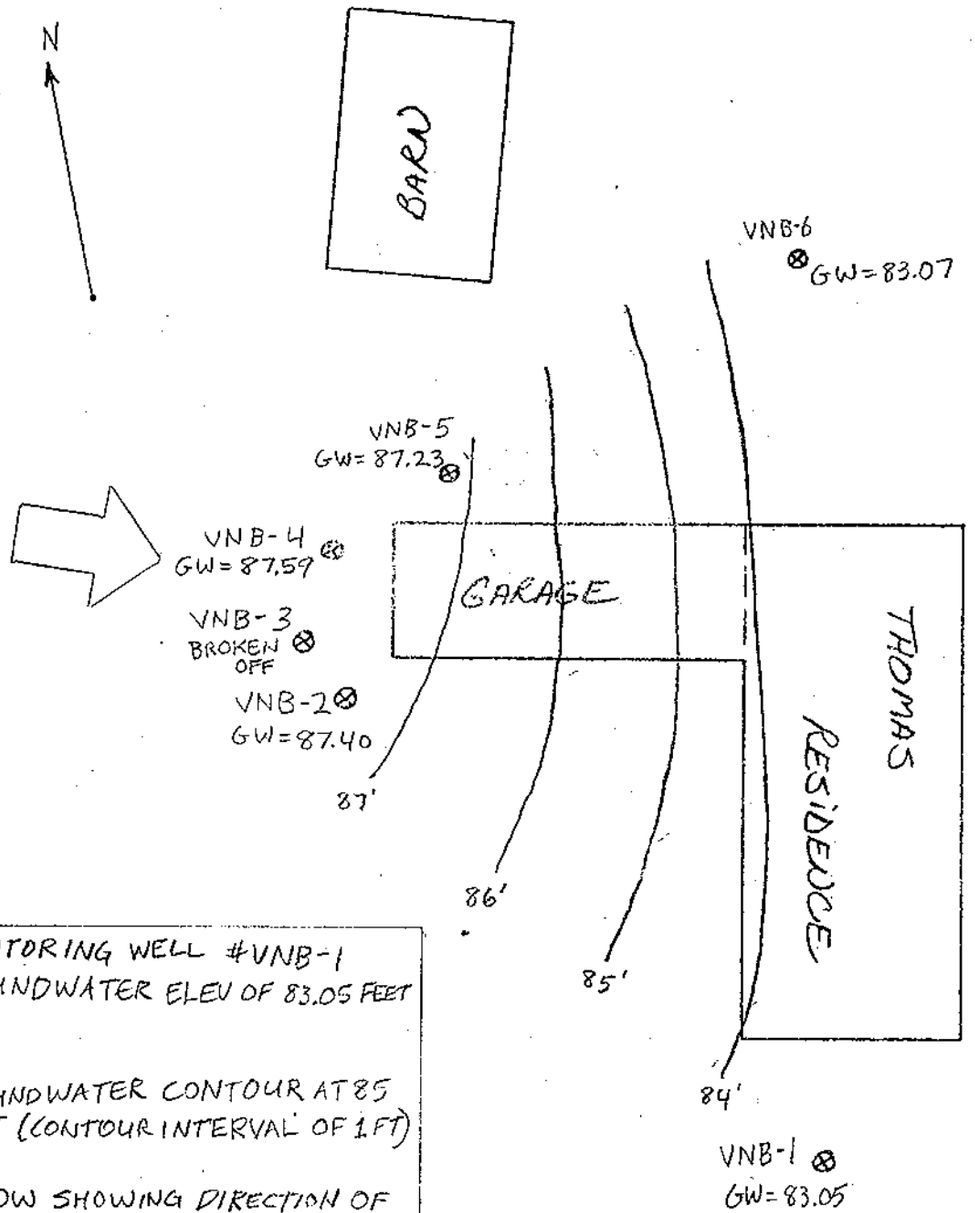
TRI-S INC
ENVIRONMENTAL CONSULTING

214 Main Street
Brattleboro, VT 05301

(802) 254-3677 (24 hrs.)
(802) 254-7630 (FAX)

GROUNDWATER POTENTIOMETRIC MAP

EOR 7/8/92



VNB-1 ⊗ GW=83.05 — MONITORING WELL #VNB-1 GROUNDWATER ELEV OF 83.05 FEET

85' — GROUNDWATER CONTOUR AT 85 FEET (CONTOUR INTERVAL OF 1 FT)

ARROW SHOWING DIRECTION OF GROUNDWATER FLOW

SCALE 1:360 — 0 15 30 45 FEET

Branch Office:
25 Pinney Street, Ellington, CT 06029 (203) 875-2110 (24 hrs.)
Fax: (203) 875-8587 (24 hrs.)

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TRI-S INC.
ENVIRONMENTAL CONSULTING

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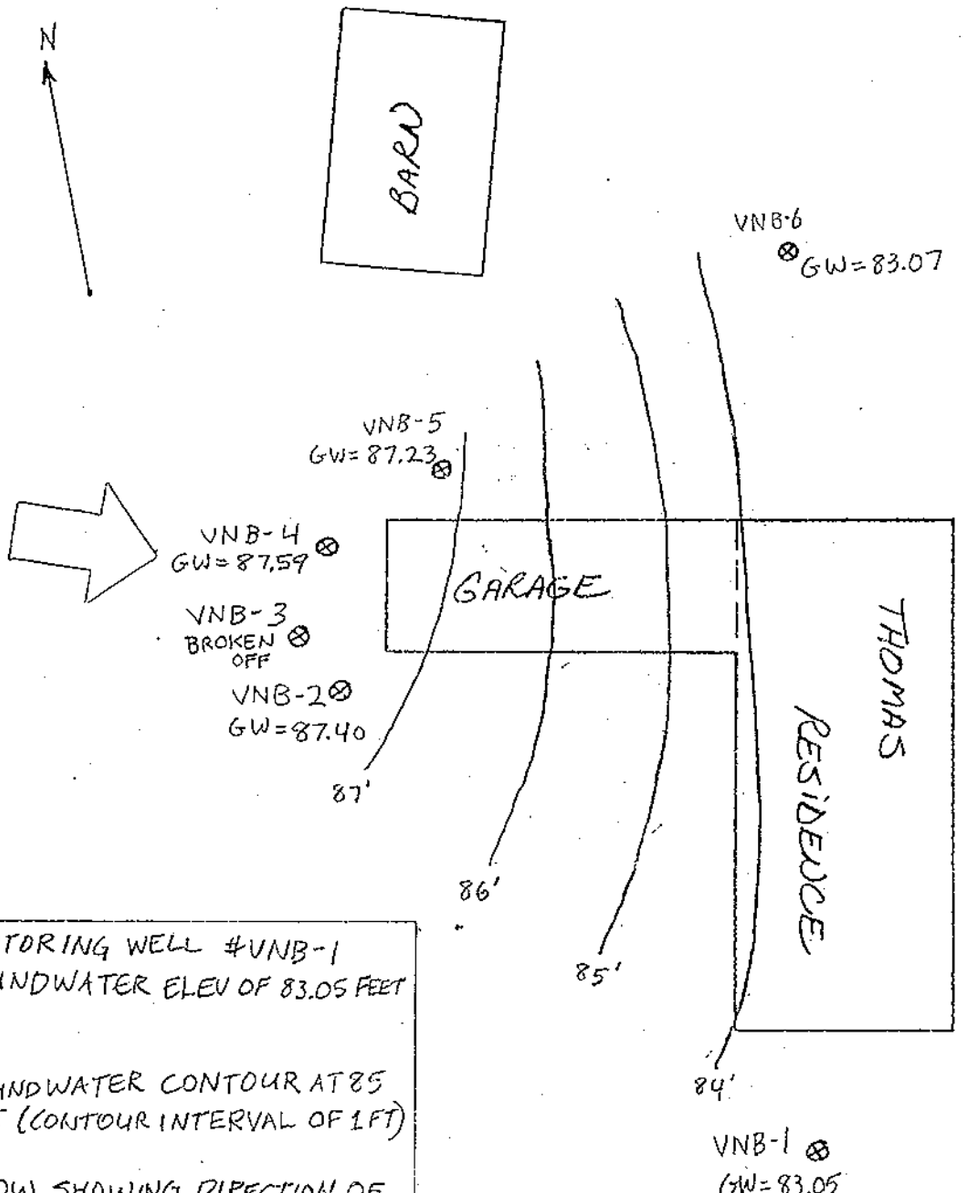
GROUNDWATER POTENTIOMETRIC MAP

FOR 7/8/92



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